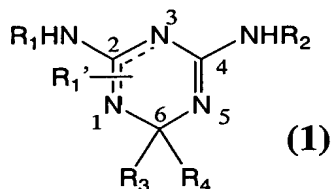


CLAIMS

1. An antibacterial agent, which comprises, as an active ingredient, a compound represented by the following general formula (1):



(wherein R_1 represents (i) a hydrogen atom, (ii) a phenyl group or a phenylalkyl group, each of which is optionally substituted, (iii) a naphthyl group or a naphthylalkyl group, each of which is optionally substituted, (iv) a heterocyclic group, a heterocyclic alkyl group or a heterocyclic aminoalkyl group, each of which is optionally substituted, (v) an optionally substituted alkyl group of 1 to 16 carbon atoms, or (vi) a cycloalkyl group or a cycloalkyl-alkyl group, each of which is optionally substituted;

(a) when R_1 is a hydrogen atom, R_1' represents (i) a phenyl group or a phenylalkyl group, each of which is optionally substituted, (ii) a naphthyl group or a naphthylalkyl group, each of which is optionally substituted, (iii) a heterocyclic group, a heterocyclic alkyl group or a heterocyclic aminoalkyl group, each of which is optionally substituted, (iv) an optionally substituted alkyl group of 1 to 16 carbon atoms, or (v) a cycloalkyl group or a cycloalkyl-alkyl group, each of which is substituted, said groups (i) to (v) being substituted at position 1 of the dihydrotriazine ring, or

(b) when R_1 is other than a hydrogen atom, R_1' represents

a hydrogen atom attached to the nitrogen atom at position 1 or 3 of the dihydrotriazine ring;

R_2 represents a hydrogen atom or an optionally substituted alkyl group of 1 to 16 carbon atoms;

5 R_3 and R_4 represent that R_3 is a hydrogen atom or an optionally substituted alkyl group of 1 to 3 carbon atoms, and R_4 is a hydrogen atom or an optionally substituted alkyl group of 1 to 16 carbon atoms, or R_3 and R_4 are taken together with the adjacent carbon atom to form a spirocycloalkane group or an alkyl
10 spirocycloalkane group; and

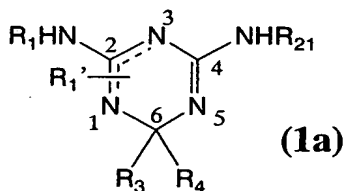
the dashed line indicates that the position of a double bond is either between 1 and 2 or between 2 and 3), or a tautomer thereof or a pharmacologically acceptable salt thereof.

15

2. The antibacterial agent according to claim 1, wherein any one of R_2 and R_4 is an optionally substituted alkyl group of 7 to 16 carbon atoms.

20

3. A compound represented by the general formula (1a):



(wherein R_1 represents (i) a hydrogen atom, (ii) a phenyl group or a phenylalkyl group, each of which is optionally substituted, (iii) a naphthyl group or a naphthylalkyl group, each of which
25 is optionally substituted, (iv) a heterocyclic group, a heterocyclic alkyl group or a heterocyclic aminoalkyl group,

each of which is optionally substituted, (v) an optionally substituted alkyl group of 1 to 16 carbon atoms, or (vi) a cycloalkyl group or a cycloalkyl-alkyl group, each of which is optionally substituted;

5 (a) when R_1 is a hydrogen atom, R_1' represents (i) a phenyl group or a phenylalkyl group, each of which is optionally substituted, (ii) a naphthyl group or a naphthylalkyl group, each of which is optionally substituted, (iii) a heterocyclic group, a heterocyclic alkyl group or a heterocyclic aminoalkyl group, each of which is optionally substituted, (iv) an
10 optionally substituted alkyl group of 1 to 16 carbon atoms, (v) a cycloalkyl group or a cycloalkyl-alkyl group, each of which is optionally substituted, said groups (i) to (v) being substituted at position 1 of the dihydrotriazine ring, or

15 (b) when R_1 is other than a hydrogen atom, R_1' represents a hydrogen atom attached to the nitrogen atom at position 1 or 3 of the dihydrotriazine ring;

R_{21} represents an optionally substituted alkyl group of 7 to 16 carbon atoms;

20 R_3 and R_4 represent that R_3 is a hydrogen atom or an optionally substituted alkyl group of 1 to 3 carbon atoms, and R_4 is a hydrogen atom or an optionally substituted alkyl group of 1 to 16 carbon atoms, or R_3 and R_4 are taken together with the adjacent carbon atom to form a spirocycloalkane group or an alkyl
25 spirocycloalkane group; and

the dashed line indicates that the position of a double bond is either between 1 and 2 or between 2 and 3), or a tautomer thereof or a salt thereof.

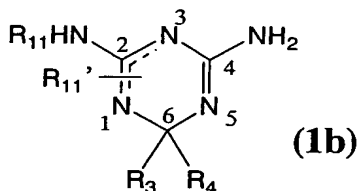
4. The compound according to claim 3, wherein R_1 is (i) a hydrogen atom, (ii) a phenyl group or a phenylalkyl group, each of which is optionally substituted, (iii) an optionally substituted naphthyl group, (iv) a heterocyclic group, a
5 heterocyclic alkyl group or a heterocyclic aminoalkyl group, each of which is optionally substituted, (v) an optionally substituted alkyl group of 1 to 16 carbon atoms, or (vi) a cycloalkyl group or a cycloalkyl-alkyl group, each of which is optionally substituted;

10 (a) when R_1 is a hydrogen atom, R_1' is (i) a phenyl group or a phenylalkyl group, each of which is optionally substituted, (ii) a naphthyl group or a naphthylalkyl group, each of which is optionally substituted, (iii) a heterocyclic group, a heterocyclic alkyl group or a heterocyclic aminoalkyl group,
15 each of which is optionally substituted, or (iv) an optionally substituted alkyl group of 1 to 16 carbon atoms, said groups (i) to (iv) being substituted at position 1 of the dihydrotriazine ring,
or a tautomer thereof or a salt thereof.

20 5. The compound according to claim 3, wherein R_1 is a phenyl group or a phenylalkyl group, or an alkyl group of 1 to 16 carbon atoms, each of which is optionally substituted; R_3 is an optionally substituted alkyl group of 1 to 3 carbon atoms; and
25 R_4 is an optionally substituted alkyl group of 1 to 16 carbon atoms,
or a tautomer thereof or a salt thereof.

6. A compound represented by the following general formula

(1b):



(wherein R_{11} represents (i) a hydrogen atom, (ii) an optionally substituted phenyl group, (iii) a naphthyl group or a naphthylalkyl group, each of which is optionally substituted, (iv) a heterocyclic group or a heterocyclic alkyl group, each of which is optionally substituted, or (v) a cycloalkyl group or a cycloalkyl-alkyl group, each of which is optionally substituted;

(a) when R_{11} is a hydrogen atom, R_{11}' represents (i) a naphthyl group or a naphthylalkyl group, each of which is optionally substituted, (ii) a heterocyclic group or a heterocyclic alkyl group, each of which is optionally substituted, (iii) an optionally substituted alkyl group of 1 to 16 carbon atoms, or (iv) a cycloalkyl group or a cycloalkyl-alkyl group, each of which is optionally substituted, said groups (i) to (iv) being substituted at position 1 of the dihydrotriazine ring, or

(b) when R_{11} is other than a hydrogen atom, R_{11}' represents a hydrogen atom attached to the nitrogen atom at position 1 or 3 of the dihydrotriazine ring;

R_3 and R_4 represent that R_3 is a hydrogen atom or an alkyl group of 1 to 3 carbon atoms, and R_4 is a hydrogen atom or an alkyl group of 1 to 16 carbon atoms, or R_3 and R_4 are taken together with the adjacent carbon atom to form a spirocycloalkane group or an alkylspirocycloalkane group; and

the dashed line indicates that the position of a double

bond is either between 1 and 2 or between 2 and 3, provided that at least one of R_{11}' and R_4 is an optionally substituted alkyl group of 7 to 16 carbon atoms),

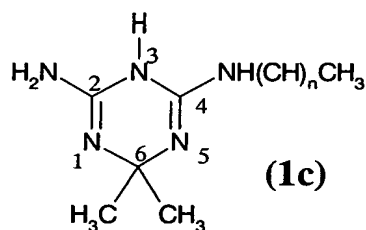
or a tautomer thereof or a salt thereof.

5

7. The compound according to claim 6, wherein R_{11} is an optionally substituted phenyl group, or a tautomer thereof or a salt thereof.

10

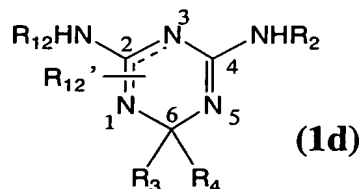
8. A compound represented by the following general formula (1c):



(wherein n represents an integer of 13 to 15), or a tautomer thereof or a salt thereof.

15

9. A compound represented by the following general formula (1d):



(wherein R_{12} represents a hydrogen atom, or a heterocyclic group, a heterocyclic alkyl group or a heterocyclic aminoalkyl group, the last three groups being optionally substituted, (a) when R_{12} is a hydrogen atom, R_{12}' represents an optionally

20

substituted heterocyclic group, an optionally substituted heterocyclic alkyl group or an optionally substituted heterocyclic aminoalkyl group, said groups being substituted at position 1 of the dihydrotriazine ring, or

- 5 (b) when R_{12} is other than a hydrogen atom, R_{12}' represents a hydrogen atom attached to the nitrogen atom at position 1 or 3 of the dihydrotriazine ring;

R_2 represents a hydrogen atom, or an optionally substituted alkyl group of 1 to 16 carbon atoms;

- 10 R_3 and R_4 represent that R_3 is a hydrogen atom or an optionally substituted alkyl group of 1 to 3 carbon atoms, and R_4 is a hydrogen atom or an optionally substituted alkyl group of 1 to 16 carbon atoms, or R_3 and R_4 are taken together with the adjacent carbon atom to form a spirocycloalkane group or an alkylspirocycloalkane group; and
- 15

the dashed line indicates that the position of a double bond is either between 1 and 2 or between 2 and 3), or a tautomer thereof or a salt thereof.

- 20 10. A bactericidal/disinfectant agent, which comprises, as an active ingredient, a compound represented by the general formula (1) as defined in claim 1, or a tautomer thereof or a pharmacologically acceptable salt thereof.

- 25 11. An antiseptic/preservative agent for cosmetics, which comprises, as an active ingredient, a compound represented by the general formula (1) as defined in claim 1, or a tautomer thereof or a pharmacologically acceptable salt thereof.

12. A method of treating or preventing bacterial infectious diseases, which comprises administering a therapeutically effective amount of a compound represented by the general formula (1) as defined in claim 1, or a tautomer thereof or a pharmacologically acceptable salt thereof to mammals, birds or fish in need of treatment or prevention of bacterial infectious diseases.

13. Use of a compound represented by the general formula (1) as defined in claim 1, or a tautomer thereof or a pharmacologically acceptable salt thereof for preparation of a medicament for treating or preventing bacterial infectious diseases.